

1 1(currently amended). An apparatus for use in analyzing video
2 images, comprising:

3 a video input signal providing a video signal to be analyzed, the video
4 input signal including at least one of successive picture frames and fields
5 containing a video picture **that changes in time;**

6 a video processor operable to produce a display of information on a
7 display device at least partly from the video input signal, wherein the display of
8 information comprises a repetitively composed formatted display of images
9 that is changed **over time from one mode of display of information to an**
10 **other mode of display of information, as the video input signal changes**
11 **in time, wherein said modes of display of the information comprise**
12 **different selections of display elements, each of the different selections**
13 **comprising one or more of: between modes in which the formatted display**
14 **contains one of:**

15 a full representation of the video picture contained in the video
16 input signal, selectively presented so as to occupy at least a portion of a
17 display area of the formatted display;

18 a zoom image including an area of particular scrutiny in said
19 video picture, selectively presented so as to occupy at least a portion of
20 the display area of the formatted display;

21 a report of video data characteristics of at least one point within
22 said area of particular scrutiny;

23 a subset of said full representation, said zoom image and said
24 report; and,

25 wherein a controller **is** coupled to the video processor and to at least
26 one control input, **wherein a user selects via the control input at least one**
27 **selection criterion applied to the video signal to cause a change in the**
28 **formatted display of images from said one mode to said other mode, and**
29 **wherein the user selects via the control input a selection of the display**

30 **elements to be included in the display composed by the video processor**
31 **when the selection criterion is met.** ~~, controls the nature of information~~
32 ~~displayed by the video processor in response to changes in the character of~~
33 ~~the input signal, including changing between said modes.~~

2(canceled).

1 3(previously presented). The apparatus of claim 1, wherein the video
2 processor has a display mode wherein the full representation of the video
3 picture, the zoom image and the report of said video data characteristics are
4 presented at different parts of the display device and present progressively
5 smaller parts of the area of particular scrutiny.

1 4(original). The apparatus of claim 3, wherein the report includes a
2 tabular display of data respecting pixels at the area of particular scrutiny.

1 5(original). The apparatus of claim 4, wherein the tabular display of
2 data includes sample location information and color sample data.

1 6(original). The apparatus of claim 5, wherein the tabular display of
2 data includes a color swatch demonstrating the color sample data.

1 7(previously presented). The apparatus of claim 1, wherein the video
2 input signal contains a digital video signal with successive picture frames and
3 the video processor produces the formatted display repetitively for increments
4 of at least one frame, from one of discrete sample data and discrete color
5 state elements defining pixels in the video input signal.

1 8(previously presented). The apparatus of claim 1, wherein the video
2 processor produces the formatted display for increments of at least one frame

3 from one of discrete sample data and discrete color state elements defining
4 pixels in the video input signal.

1 9(previously presented). The apparatus of claim 1, wherein the video
2 processor is operable to resize at least part of the video picture for
3 presentation in part of an area of the formatted display that occupies less than
4 a full area of the formatted display, and wherein resizing by the video
5 processor includes at least one of recalculating pixel values, sampling pixel
6 values and reading out selected pixel values.

1 10(previously presented). The apparatus of claim 1, wherein the
2 control input is operable by a user manually to select from the video input
3 signal an area to be the area of particular scrutiny, and wherein the video
4 processor is operable simultaneously to present the video picture and the
5 zoom image including the area of particular scrutiny, in different areas of said
6 formatted display.

1 11(currently amended). The apparatus of claim 1, wherein the video
2 processor allots the formatted display to accommodate **said change in the**
3 **formatted display of images from said one mode to said other mode** ~~said~~
4 ~~changeable selection.~~

1 Claim 12 is cancelled.

1 13(currently amended). The apparatus of claim ~~1, 12, further~~
2 wherein the controller and the video processor are operable to coordinate
3 between automatic and manual selection of the area of particular scrutiny,
4 wherein one of said manual selection and said automatic selection supersedes
5 an other of said manual selection and said automatic selection for a limited
6 period of time after said changing of the formatted display by the video
7 processor when the ~~predetermined criteria are~~ **selection criterion is** met.

1 14(original). The apparatus of claim 13, wherein the selection criteria
2 for said automatic selection include a color gamut value criterion having at
3 least one threshold value such that a value meeting the threshold value
4 criterion is selected for particular scrutiny.

Claims 15-25 have been canceled.

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